



California Regional Water Quality Control Board

Los Angeles Region



Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Linda S. Adams
Agency Secretary

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Arnold Schwarzenegger
Governor

August 17, 2006

State Clearinghouse
Governor's Office of Planning and Research
1400 Tenth Street, Room 222
Sacramento, CA 95814

CERTIFIED RETURN RECEIPT
7005 1820 0001 2683 5262

TECHNOLOGY DEMONSTRATION TO EVALUATE IN SITU BIOREMEDIATION OF PERCHLORATE IN SHALLOW GROUNDWATER - AREA 11, FORMER WHITTAKER - BERMITE FACILITY, 2216 SOLEDAD CANYON ROAD, SANTA CLARITA, CALIFORNIA (FILE NO. 06-114)

Dear Interested Parties:

The Regional Water Quality Control Board (Regional Board) is providing regulatory assistance with Waste Discharge Requirements and the Monitoring and Reporting Program for the protection of groundwater quality at the California Department of Toxic Substances Control (DTSC) lead site, referenced above. The U.S. Army Corps of Engineers (Discharger) proposes to conduct a technology demonstration to evaluate the effectiveness of bioremediation of perchlorate in shallow groundwater at the site. Santa Clarita, LLC owns the site and the Discharger is performing the technology demonstration. The site is currently unoccupied, however, plans call for the construction of residences.

The Discharger proposes to conduct a technology demonstration to evaluate the remediation of perchlorate in shallow groundwater by enhanced in-situ bioremediation. In-situ bioremediation at this site will involve the addition of citric acid and diammonium phosphate to the shallow groundwater. The addition of citric acid and diammonium phosphate has been shown to enhance biodegradation of perchlorate and nitrate in soil samples from this site, in laboratory tests.

The Discharger has submitted a report of waste discharge for the proposed technology demonstration and the use of a sodium bromide tracer to evaluate groundwater flow, citric acid and diammonium phosphate to enhance bioremediation, and chlorine dioxide to limit well biofouling. In accordance with the California Environmental Quality Act (CEQA), this Regional Board has prepared an Initial Study for the technology demonstration project and the Regional Board has determined that the proposed injection will not have a significant adverse effect on the environment, and therefore, has prepared a Mitigated Negative Declaration. The Regional Board has also prepared Tentative Waste Discharge Requirements to regulate the use of the sodium bromide, citric acid, and chlorine dioxide to monitor groundwater quality and groundwater flow conditions during remediation.

The enclosed Notice of Preparation, Initial Study, Mitigated Negative Declaration, and Tentative Waste Discharge Requirements describe the location and nature of the project. The Regional Board hereby submits the Initial Study, Mitigated Negative Declaration, Certificate of Fee Exemption, and

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Tentative Waste Discharge Requirements to the State Clearinghouse for review and distribution. This Regional Board will accept comments from any interested party until September 22, 2006.

Please call Mr. Peter Raftery at (213) 576-6724 or Dr. Rebecca Chou at (213) 576-6733 if you have any questions.

Sincerely,

fw *David A. Buchanowski, CEO*
Rebecca Chou, Ph.D., P.E.
Chief of Site Cleanup Unit I

Enclosures

1. Initial Study, Parts 1 and 2
2. Notice of Preparation of Mitigated Negative Declaration
3. Tentative Resolution Approving the Environmental Checklist and Adopting Mitigated Negative Declaration with Determination on Mitigated Negative Declaration
4. Fish & Game Commission Certificate of Fee Exemption
5. Cover Letter Transmitting Tentative Waste Discharge Requirements to Applicant
6. Tentative Waste Discharge Requirements with Standard Provisions (Board Order)
7. Tentative Monitoring and Reporting Program
8. Notice of Completion & Environmental Document Transmittal

cc: Environmental Protection Agency, Region 9, Permits Branch (WTR-5)
John Youngerman, State Water Resources Control Board, Division of Water Quality
Department of Fish and Game, Region 5
Kurt Souza, State Department of Health Services, Drinking Water Field Operations Branch
Jose Diaz, Department of Toxic Substances Control, Glendale
Connie Worden-Roberts, Santa Clarita
Eric Lardiere, Esq., Simi Valley
Lisa Hardy, Santa Clarita
David Lippincott, Shaw Environmental, Inc., Lawrenceville
Paul Hatzinger, Shaw Environmental, Inc., Lawrenceville
John Cullinane, U.S. Army Engineer Research & Development Center, Vicksburg
Myla Bobrow, Santa Clarita, LLC, Phoenix

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